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Enzyme immunoassay for determining IgE in blood - by sepg. fixed antigen-analyte-antibody
labelled antibody complex and detecting complex fixed on solid carrier

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Abstract (Basic): JP 05113443 A

Immunoassay comprises reacting a sample contg. analyte antibody, a fixed antigen formed by supporting antigen reacting specifically with the analyte antibody on a solid carrier and a labelled antibody capable of reacting with the analyte antibody; (b) sepg. fixed antigen-analyte antibody-labelled antibody complex formed in (a) from unreacted labelled antibody; and (c) detecting the complex substance contained in the complex. Luciferase from sea firefly is used as the labelling enzyme. The fixed antigen consists of two or more kinds of antigens fixed on a solid carrier. Although the kind of antibody to be determined by the invention is not limited, IgE antibody is pref. determined for the diagnosis of allergic diseases. The amts. of IgE antibodies to various allergens such as tick, dust, dog, rice or egg white can be determined. Solid carrier for fixing antigen(s) is e.g. plastic test tube, micro-titre plate or glass bead. For making the labelled antibody, luciferase of sea firefly is pref. modified by various functional gps. or molecules. Antibody used as the labelled antibody is e.g. that of man, mouse, cow, rabbit or goat, and pref. monoclonal antibody. The enzyme immunoassay can be carried out by 1-step or 2-step method, but is pref. carried out by 2-step method.

USE/ADVANTGE - Used to determine the amt. of IgE antibody in blood rapidly by enzyme immunoassay. Also the amts. of specific antibodies of multi-items can be simultaneously determined. Dwg.0/0

Derwent Class: B04; D16; S03;

Int Pat Class: G01N-033/535; G01N-033/543